

VALVE LEAK DETECTING METHOD

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Abstract of JP62080535

PURPOSE:To detect a slight leak of liquid in a valve with high reliability by a simple device through easy operation by estimating the acoustic level of a valve installation part, and comparing the estimated value with the measured acoustic level of the valve installation part. CONSTITUTION:A noninertion type acoustic device consists of a probe 1 which is applied to a measurement position to take acoustic measurement, a transducer 2, a detector 3 which incorporates an amplifier and a filter, an indicator 4, a recorder 5, etc. Then, acoustic measurement is taken at position A and B which are at distance 3D-5D (D=internal pipe diameter) from a valve 6 between upstream-side piping 7 and downstream-side piping 8 and acoustic levels at the valve installation part C (at the valve body 6 or at distance <=2.5 D from the center of the valve 6) are estimated at those two points from the measured values. Then, acoustic measurement is taken at the valve installation part C and it is decided that there is a leak if there is a significant error larger than a prescribed value between the measured value and the estimated acoustic level.

